RISC PC

Data Sheet 9
Risc PC Ethernet Card

April 1994

Acorn Universal Networking (AUN), Acorn's networking strategy for the 1990s and beyond, aims to place Acorn computers at the heart of whole-site networks, using a standard cable type: Ethernet. Such a network can support a mixture of Acorn and non-Acorn computers, such as PCs and Apple Macs. AUN will support data interchange via this kind of connectivity as networking requirements change and grow.

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As part of this strategy, a simple, compact Ethernet Card has been developed for the Acorn Risc PC, and this is the only additional hardware you need to connect your Risc PC to an Ethernet network.

The Risc PC Ethernet Card Printed Circuit Board (PCB) measures 84 mm x 75 mm (and 18 mm thick), and just plugs into a dedicated socket on the main computer PCB. It conforms to ISO/IEC 8802.3, and provides a 10Base2 (commonly known as thin Ethernet) interface via a BNC connector on the back panel of the computer. It does not take up any of the expansion card slots, leaving them free for other uses.

The card is available in two forms, with different firmware: a standard version for use with Acorn TCP/IP and Level 4 networking and as part of an Acorn Access pack for simple disc- and printer-sharing networks.

TCP/IP has been adopted by the majority of computer manufacturers as the de facto standard for connecting into heterogeneous networks/systems (UNIX and non-UNIX).

Users in the Acorn community now benefit from this connectivity with Acorn's TCP/IP Protocol Suite (Release 2) which provides VT220 emulation, NFS and Internet access, and support for a wide range of proprietary and off-the-shelf network devices. You can easily connect your Acorn Risc PC into an existing campus TCP/IP network.

The standard Ethernet Card can support both Level 4 and TCP/IP protocols simultaneously, enabling co-existence between Econet, Ethernet, and UNIX and hybrid networks with TCP/IP.

The following table shows the specification of the Risc PC Ethernet Card:

Performance	500KBytes/Sec (using UDP)
Network interface	16-bit
Electrical isolation	Withstands 500VRMS for one minute
Safety standards	IEC 950, EN60950
MTBF	30,000 hours
Environmental performance	0°-40°C, 0%-75% humidity (non-condensing)
EMC	Designed to EN55022 and/or Vfg243+46
Immunity	Designed to EN55024 Parts 2 and 4

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APP 698 FIRST EDITION APRIL 1994.